

DAFTAR PUSTAKA

- Ado, A., Yahaya H., Kwalli A. A., Abdulkadir R. S. 2014. Dyeing of textiles with eco-friendly natural dyes: A Review. *International Journal of Environmental Monitoring and Protection*. Vol. 1 (5) 2014, pp. 76-81.
- Amos, H. Henanto, S. Royaningsih, dan F. Laura. 2005. Kandungan catechin pada gambir. Makalah pada seminar nasional ke XVII & Kongres ke X Perhimpunan biokimia & biologi molekuler Indonesia di Pekanbaru, Riau.
- Amos. 2010. Kandungan katekin gambir sentra produksi di Indonesia. *Journal Standarisasi*. 12; 149-155.
- Anonymous. 1985. Chemisch -Technologisches spezial Praktikum fuer Hokwirte. Ordinarlet fuer Holztechnologie. Universitaet Hamburg. Hamburg-Germany.
- Bacab, M.J.C., Sanmartín, P., Chab, J.C.C., Ascanio, K.B.P., Quim_e, H.E.H., Morales. B.O.O. 2015. Characterization and dyeing potential of colorant-bearing plants of the Mayan area in Yucatan Peninsula, Mexico. *Journal of Cleaner Production* 91 (2015) 191-200.
- Baliarsingh, S., Panda, A.K., Jena, J., Das, T., Das, N.B. 2012. Exploring sustainable technique on natural dye extraction from native plants for textile: identification of colourants, colourimetric analysis of dyed yarns and their antimicrobial evaluation. *Journal of Cleaner Production* 37 (2012) 257-264.
- Baliarsingh, S., Behera, P.C., Jena, J., Das, T., Das, N.B. 2015. UV reflectance attributed direct correlation to colour strength and absorbance of natural dyed yarn with respect to mordant use and their potential antimicrobial efficacy. *Journal of Cleaner Production* 102 (2015) 485-492
- Burkinshaw, S.M., Kumar, N., 2009. The mordant dyeing of wool using tannic acid and FeSO₄, part 1: initial findings. *Dyes and Pigments*. 80, 53-60.
- Colombini. MP., Andreotti., A., Baraldi, C., Degano, I., Lucejko JJ. J. Colour fading in textiles: A model study on the decomposition of natural dyes. *Microchemical Journal*. 85, (2007) 174–182
- Deng, YT., Liang, G., Shi, Y., Li, HL., Zhang, J., Mao, XM., Fu, QR., Peng, WX., Chen, QX., dan Shen, DY. Condensed tannins from *Ficus altissima* leaves: Structural, antioxidant, and antityrosinase properties. *Process Biochemistry*, Volume 51, Issue 8, August 2016, Pages 1092-1099.
- Diouf, P.N., Tibirna, C.M., Pérez, M.E.G., Royer, M., Dubé, P & Stevanovic, S. T. 2013. Structural Elucidation of Condensed Tannin from *Picea mariana* Bark. *Journal of Biomaterials and Nanobiotechnology*, 2013, 4, 1-8
- Ditjen UKM, 2007. Tingkatkan Nilai Batik Dengan Zat Warna Alam. <http://ikm.kemenperin.go.id/Publikasi/KumpulanArtikel>.

- Djufri. 1976. *Teknologi pencelupan dan pencapan*. Institut Teknologi Tekstil.
- Erkan, GK., Kemal, S, Kaya S. 2014. Dyeing of white and indigo dyed cotton fabrics with Mimosa tenuiflora extract. *Journal of Saudi Chemical Society*(18), 139–148.
- Etherington, R. 2002. *A Dictionary Of Descriptive Terminology: Vegetable Tannin*.<http://palimpsest. standart.edu./don/dt.3686.html>. Diakses tanggal 6 Februari 2015.
- Failisnur dan Yeni, G. 2013. Stabilisasi limbah cair hasil pengolahan gambir dan aplikasinya sebagai pewarna pada kain sutera. *Jurnal Biopropal Industri*, Vol.4 (1) 7-16.
- Failisnur dan Sofyan. 2014. Sifat tahan luntur dan intensitas warna kain sutera dengan pewarna alam gambir (*Uncaria gambir Roxb*) pada kondisi pencelupan dan jenis fiksator yang berbeda. *Jurnal Litbang Industri* Vol.4 (1);1-8.
- Fengel, D., Wegener, G. 1995. *Kayu: Kimia ultrastruktur reaksi–reaksi*. Gadjah Mada University Press. Yogyakarta.
- Fitrihana, N. 2007. Teknik eksplorasi zat pewarna alam dari tanaman di sekitar kita untuk pencelupan bahan tekstil. B4D3 Consultant. <https://batikyogya.wordpress.com/2007/08/02/>. Akses 21 April 2011.
- Ghaheh, F.S., Mortazavi,S.M., Alihosseini, F., Fassihi, A., Nate, A.S., Abedi D. 2014. Assessment of antibacterial activity of wool fabrics dyed with natural dyes. *Journal of Cleaner Production* 72 (2014) 139-145.
- Gumrukcu, G. & and Ozgur, M.U. 2011. Effect of Tannic Acid and Metal Salts on Dyeing of Woolen Fabrics with Red Onion (*Alliumcepa L.*). *Asian Journal of Chemistry*; Vol. 23, No. 4 (2011), 1459-1466.
- Grifoni, D., Bacci, L., Zipoli, G., Albanese, L., Sabatini, F., 2011. The role of natural dyes in the UV protection of fabrics made of vegetable fibres. *J. Dyes and Pigments* 91,279–285.
- Hou, X., Chen, X., Cheng, Y., Xu, H., Chen, L., Yang, Y. Dyeing and UV-protection properties of water extracts from orange peel. *Journal of Cleaner Production* 52 (2013) 410-419.
- Janani, L., Hillary, L., dan Phillips, K. 2014. Mordanting Methods for Dyeing cotton Fabrics with Dye from *Albizia coriaria* Plant Species. *International Journal of Scientific and Research Publications*, Volume 4, Issue 10, October 2014
- Kadolph, S.J., Casselman, K.D. 2004. In the bag: contact natural dyes. *Clothing and Textiles Research Journal*. 22, 15-47.
- Kasim, A. 2011. *Proses produksi dan industri hilir gambir*. Cetakan 1. Andalas University Pres, Padang.

- Kasim, A., Asben, A., dan Mutiar, S. 2011. Kajian kualitas gambir dan hubungannya dengan karakteristik kulit tersamak. *Majalah Kulit, Karet, dan Plastik*, Vol. 31. No. 1 Juni 2015.
- Kementerian Pertanian, Direktorat Jenderal Perkebunan. 2013. *Tanaman rempah dan penyegar*. Statistik Perkebunan Indonesia 2012-2014.
- Kumaresan, M., P.N. Palanisamy, dan P.E.Kumar. 2013. Comparison of fastness properties and colour strength of dyed cottonfabrics with eco-friendly natural dyes. *The Experiment*, Vol. 8(3), 483-48.
- Lemmens, R.H.M.J. dan N. Wulijarni-Soetjipto. 1999. *Tumbuh-Tumbuhan Penghasil Pewarna dan Tanin*. Sumber Daya Nabati Asia Tenggara, No. 3., PT Balai Pustaka, Jakarta bekerja sama dengan Prosea Indonesia, Bogor.
- Manhita, A., Ferreira, V., Vargas, H., Ribeiro, I., Candeias, A., Teixeira, D., Ferreira, T., dan Dias,C.B. 2011. Enlightening the influence of mordant, dyeing technique and photodegradation onthe colour hue of textiles dyed with madder – A chromatographic andspectrometric approach), *Microchemical Journal* 98 ; 82–90.
- Markham, KR. 1998. *Cara mengidentifikasi flavonoid*. Divisi Kimia. Departemen Penelitian Ilmu Pengetahuan dan Industri. Institut Teknologi Bandung.
- Mongkholtattanasit, R., Klaichoi,C., Rungruangkitkrai, N.,Punrattanasin,N., Sriharuksa, Nakpathom, M. 2013. Dyeing Studies with *Eucalyptus*, Quercetin, Rutin, and Tannin: A Research on effect of ferrous sulfate mordant. *Journal of Textiles* Vol. 2013, 1-7.
- Moiz, A., Ahmed, M.A., Kausar, N., Ahmed, K., Sohail, M. 2010. Study the effect of metal ion on wool fabric dyeing with tea as natural dye. *Journal of Saudi Chemical Society* 14, 69–76.
- Muchtar, H., Yusmeiarti, Yeni, G. 2008. Pengaruh penggunaan jenis absorban untuk isolasi katechin gambir murni. *Jurnal Riset Industri* 2(1); 14-23.
- Muchtar, H., Yeni, G., Yusmeiarti, Hermianti, W., dan Diza, Y. 2009. Pembuatan konsentrat polifenol gambir (*Uncaria gambir* Roxb) sebagai bahan pengawet (antioksidan) pangan. Laporan Penelitian Program Riset Insentif Diknas.
- Narayanaswamy, V.K.N., Gowda, N., Sudhakar, R. 2013. Dyeing and color fastness of natural dye form *Psidium guajava* on silk. *J.Natural Fiber* 10: 257-270
- Prusty, A.K., Trupti Das, A. Nayak, N.B. Das. 2010. Colourimetric analysis and antimicrobial study of natural dyes and dyed silk. *Journal of Cleaner Production*(18) 1750-1756.
- Nazir, N. 2000. *Gambir; budidaya, pengolahan dan prospek difersifikasinya*. Yayasan Hutanku. Padang.

- Oladoja, Y.B Alliu, A.E Ofomaja, I.E. Unuabonah. 2011.Synchronous attenuation of metal ions and colour in aqua stream using tannin–alum synergy *J.Desalination* (271) 34–40.
- Pinelo, M., Fabbro PD, Manzocco L, Nicoli MJN, Cristina M. 2005. Optimization of continous phenol extraction from *Vitis vinifera* by product. *Food Chemistry*. 92; 109-117.
- Pratt, D.E., dan Hudson B.J.F. 1990. Natural antioxidants not exploited commecially. *Journal of Applied Polymer Science* 101 (5). 3348-3356.
- Punrattanasin, N., Nakpathom, M., Somboon, B., Narumol, N., Rungruangkitkrai, N., Mongkholtattanosit, R. 2013. Silk fabric dyeing with natural dye from mangrove bark (*Rhizophora apiculata* Blume) extract. *J. Ind.Crop Prod.* 49, 122-129.
- Prabhu, K.H., M.D. Teli. 2014. Eco-dyeing using *Tamarindus indica* L. seed coat tannin as a natural mordant for textiles with antibacterial activity. *Journal of Saudi Chemical Society* 18, 864–872.
- Prusty, A.K., Trupti Das, A. Nayak, N.B. Das. 2010. Colourimetric analysis and antimicrobial study of natural dyes and dyed silk. *Journal of Cleaner Production* (18) 1750-1756.
- Rauf, R., Santoso, U., Suparmo. 2010. Aktifitas penangkapan radikal DPPH ekstrak gambir (*Uncaria gambier* Roxb). *Agritech*. 30(1); 1-11.
- Ren, Y., Gong, J., Wang, F., Li, Z., Zhang, J., Fu, R., dan Lou, J. 2016. Effect of dye bath pH on dyeing and functional properties of wool fabric dyed with tea extract. *J. Dyes and Pigments*, Available online 26 July 2016In Press, Accepted Manuscript
- Rosyida, A. dan Zulfiya, A. 2013 Pewarnaan bahan tekstil dengan menggunakan ekstrak kayu nangka dan teknik pewarnaannya untuk mendapatkan hasil yang optimal. *Jurnal Rekayasa Proses*, Vol. 7, No. 2, 2013
- Said, E.G, Syamsu K, Mardliyati E, Herryandie A, Evalia N.A, Rahayu D.L, Puspitarini A.A.A.R, Ahyarudin A, dan Hadiwijoyo A. 2009.*Agroindustri & bisnis gambir Indonesia*.IPB Press.
- Saad, HF., Bouhtoury, CE., Pizzi A., Roded, K., Charrier B., Ayeda N. 2012. Characterization of pomegranate peels tannin extractives. *Industrial Crops and Products* (40) 239– 246.
- Saleh, S.M., Baset, A.E., and Badry, K.E. 2013a. Dyeing of cationized cotton fabrics with natural dye extracted from *Acasia*. *International Journal of Textile Science* 2(2); 30-35.
- Saleh, S.M., El-Hady, Y.A.A., Badry, K. 2013b. Eco-friendly dyeing of cotton fabric with natural colorants extracted from banana leaves. *J. Textile science*. 2(2): 36-40.

- Samanta, A.K., Agarwal, P., 2009. Application of natural dyes on textiles. *Indian Journal of Fibre & Textile Research.* 34, 384-399.
- Samanta, A.K. and Konar, A. 2011. Dyeing of textiles with natural dyes, Natural Dyes, Edited by Dr. Emriye Akcakoca Kumbasar (Ed.), ISBN: 978-953-307-783-3, InTech.
- Saxena, S., & A. S. M. Raja. 2014. Natural Dyes: Sources, Chemistry, Application and sustainability Issues. Roadmap to sustainable textile and clothing eco-friendly raw material, technologies, and processing method.
- Shahid, M., Islam, S., Mohammad, F. 2013. Recent advancements in natural dye applications: a review, *Journal of Cleaner Production*(53) 310-331.
- Sofyan, Failisnur, Salmariza, Marlusi, dan Muhardi. 2012. Penelitian dan peningkatan teknologi proses pencelupan kain sutera dengan memanfaatkan limbah cair gambir. Laporan Penelitian Baristand Industri Padang.
- Sofyan, Failisnur, Marlusi, dan Sulastri. 2013. Pengembangan gambir sebagai pewarna pada produk tekstil. Laporan Penelitian Baristand Industri Padang.
- Sofyan, Failisnur, Marlusi, dan Sulastri. 2014. Pengembangan gambir sebagai pewarna alam pada proses pembatikan. Laporan Penelitian Baristand Industri Padang.
- Suheryanto. 2010. Optimalisasi celupan ekstrak daun mangga pada kain batik katun dengan iring kapur. Seminar Rekayasa Kimia Dan Proses. Undip Semarang.
- Sunarto. 2008. *Teknologi Pencelupan dan Pencapan*, Jilid 2 untuk SMK. Direktorat Pembinaan Sekolah Menengah Kejuruan, Direktorat Jenderal Manajemen Pendidikan Dasar dan Menengah, Departemen Pendidikan Nasional, 149 hlm.
- Sunaryati, S., Hartini, S., Ernaningsih. Pengaruh tatacara pencelupan zat warna alamdaun sirih pada hasil pencelupan kain sutera. Prosiding Pertemuan dan Presentasi Ilmiah Penelitian Dasar Ilmu Pengetahuan dan Teknologi NuklirP3TM-BATAN Yogyakarta, tanggal 25 -26 Juli 2000.
- Tang, RC., Tang, H., Yang, C., 2010. Adsorption isotherms and mordant dyeing properties of tea polyphenols on wool, silk, and nylon. *Industrial & Engineering Chemistry Research* 49, 8894-8901.
- Toussirot, M., W. Nowik, E. Hnawia, N. Lebouvier, A.-E. Hay, A. de la Sayette, M.-G. Dijoux-Franca, D. Cardon, M. Nour. 2014. Dyeing properties, coloring compounds and antioxidant activity of Hubera nitidissima (Dunal) Chaowasku (Annonaceae) *J.Dyes and Pigments*, (102) 278-284.
- Vankar, PS. 2000. Chemistry of natural dyes. Resonance. General Article.
- Vankar, PS., Shanker, R., and Verma, A. 2007. Enzymatic natural dyeing of cotton and silk fabrics without metal mordants. *Journal of Cleaner Production* (15) 1441-1450.

- Vankar, P.S., Shanker, R., Dixit, S., dan Mahanta, D. 2009. Sonicator dyeing of cotton, wool and silk with the leaves extract. *Journal of Textile and Apparel, Technology and Management*. Vol. 6 Issue 1, Spring 2009.
- Wang, H., Li P & Zhou W. 2014. Dyeing of Silk with Anthocyanins Dyes Extract from *Liriope platyphylla* Fruits. *Journal of Textiles* Vol. 2014, Article ID 587497, 9 pages Kementerian Riset dan Teknologi.
- Wanyama, PAG., B.T. Kiremire, P. Ogwok and J.S. Murumu. 2010. The Effect of Different Mordants on Strength and Stability of Colour Produced from Selected Dye-Yielding Plants in Uganda. *International Archive of Applied Sciences and Technology*, Vol 1 [2] 81 – 92.
- Yeni, G. 2005. Pengaruh lama pemanasan larutan gambir terhadap perubahan komponen kimia dan kemampuannya sebagai penyamak kulit [Tesis] Universitas Andalas Padang.
- Yeni, G., Said, E.G., Syamsu, K., Mardliyati, E., Muchtar, H., Bushanovti, K., Yuhelminof, H. 2013. Pengembangan nanoenkapsulasi katekin dari gambir sebagai antioksidan untuk bahan baku kosmetik dan farmasi. Laporan Akhir Program Insentif Terapan. Dept. Ristek.
- Yeni, G. 2015. Rekayasa proses nanoenkapsulasi konsentrat katekin dari gambir (*Uncaria gambir* Roxb.) sebagai antioksidan [Disertasi] Pasca Sarjana, Institut Pertanian Bogor.
- Yusmeiarti, Failisnur, dan Syarief, R. 2006. Potensi limbah cair pengolahan gambir sebagai pewarna tekstil. Laporan Penelitian Balai Litbang Industri Padang.
- Zhao, Qi, Hao Feng, H., Wang, L. 2014. Dyeing properties and color fastness of cellulase-treated flax fabric with extractives from chestnut shell. *Journal of Cleaner Production*. (80) 197-203.
- Zheng, G.H., Fu, H.B., Liu, G.P., 2011. Application of rare earth as mordant for the dyeing of ramie fabrics with natural dyes. *Korean J. Chem. Eng.* 28, 2148-2155.
- Zarkogianni, M., Mikropoulou, E., Varella, E., Tsatsaroni, E., 2011. Colour and fastness of natural dyes: revival of traditional dyeing techniques. *Color Technol.* 127, 18-27.